

Notice of Allowability

Application No.

10/607,788

Examiner

Liang-che Alex Wang

Applicant(s)

PORTER, DUANE L.

Art Unit

2155

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to application filed on 6/27/2003.
2. ☒ The allowed claim(s) is/are 1-10 and 16-20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date multiple
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


SALEH NAJJAR
SUPERVISORY PATENT EXAMINER

EXAMINER'S AMENDMENT

1. Claims 1-10, 16-20 are allowed.
2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
3. Authorization for this examiner's amendment was given in a telephone interview with Darren Collins on 07/27/2007.
4. The application has been amended as follow:

Abstract is replaced as following,

Abstract

A method for delivering information to information targets within a computing environment having multiple platforms includes extracting information from an information source, transforming the extracted information, and isolating the transformed information by wrapping the transformed information into a message envelope having a standard format. The message envelope is routed to at least one information target on the same platform where the message envelope is targeted to an information target on the same platform as the router. The message envelope is routed to a second router acting as a router broker where the message envelope is targeted to an information target on a different platform than the router. The router broker routes the message envelope to at least a third router located on the platform with an information target; the third router routing the message envelope to at least one information target on its platform. The message envelope is unwrapped to reveal the transformed information that is then loaded into the information target.

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Amended) A method for delivering information to information targets within a computing environment having multiple platforms, wherein each of the multiple platforms is an information system accessing the remainder of the computing environment through a different router, comprising:
 - a) extracting information from an information source;
 - b) transforming the extracted information;
 - c) isolating the transformed information by wrapping the transformed information into a message envelope having a standard format;
 - d) delivering the message envelope to a router on a platform;
 - e1) where the message envelope is targeted to an information target on the same platform as the router, routing the message envelope to at least one information target on the same platform;
 - e2) where the message envelope is targeted to an information target on a different platform than the router, routing the message envelope to a second router acting as a router broker; the router broker then routing the message envelope to at least a third router located on the platform with an information target; the third router routing the message envelope to at least one information target on its platform;
 - (f) unwrapping the message envelope to reveal the transformed information; and loading the transformed information into the information target,wherein the extraction, transformation, and isolating steps (a)-(c), respectively, are isolated from the routing steps (e) such that the extraction, transformation, and isolating steps may be executed simultaneously for a plurality of information sources distributed across the computing environment to produce a plurality of message envelopes and wherein the subsequent steps are repeated for each of the plurality of message envelopes.

Art Unit: 2155

2. (Amended) A method for delivering information to information targets within a computing environment having multiple platforms, wherein each of the multiple platforms is an information system accessing the remainder of the computing environment through a different router, comprising:
 - a) extracting information from an information source;
 - b) transforming the extracted information;
 - c) wrapping the transformed information into a message envelope having a standard format;
 - d) delivering the message envelope to a router on a platform;
 - e1) where the message envelope is targeted to an information target on the same platform as the router, routing the message envelope to at least one information target on the same platform;
 - e2) where the message envelope is targeted to an information target on a different platform than the router, routing the message envelope to a second router acting as a router broker; the router broker and then routing the message envelope to at least a third router located on the platform with an information target; the third router routing the message envelope to at least one information target on its platform; routing the message envelope to at least one information target;
 - f) unwrapping the message envelope to reveal the information received;
 - g) mapping the received information to a format required by the information target;
 - h) transforming the received information; and
 - i) loading the received information into the information target,wherein the extraction, transformation, and wrapping steps (a)-(c), respectively, are isolated from the routing steps (e) such that the extraction, transformation, and wrapping steps may be executed simultaneously for a plurality of information sources distributed across the computing environment to produce a plurality of message envelopes and wherein the routing, unwrapping, mapping, transformation, and loading steps (d)-(i), respectively, are repeated for each of the plurality of message envelopes.
3. The method of claim 2 wherein the information is pulled from the source during the extracting step (a).

4. The method of claim 2 wherein the information is pushed from the source during the extracting step (a).
5. The method of claim 2 wherein the information extracted during step (a) comprises content changes to the source information at the time step (a) is performed as compared to the source information at a previous point in time.
6. The method of claim 2 wherein transforming the extracted information during step (b) further comprising applying one or more business rules to modify the extracted information.
7. The method of claim 2 wherein the message envelope further comprises an identification of the information source, a content definition identification and the content of the transformed information.
8. The method of claim 2 further comprising after unwrapping the message envelope, filtering the transformed information prior to loading the transformed information.
9. The method of claim 2 further comprising after unwrapping the message envelope, aggregating a plurality of transformed information and loading the aggregation of transformed information into the information target as a batch.
10. The method of claim 2 wherein the information target comprises a data warehouse and a data mart.
- 11-15 (Canceled)
16. (Amended) A method for delivering information to information targets within a computing environment having multiple platforms, wherein each of the multiple platforms is an information system accessing the remainder of the computing environment through a different router, comprising:

Art Unit: 2155

- a) extracting information from an information source;
- b) transforming the extracted information;
- c) isolating the transformed information by wrapping the transformed information into a message envelope having a standard format;
- d) delivering the message envelope to a router on a platform;
- e1) where the message envelope is targeted to an information target on the same platform as the router, routing the message envelope to at least one information target on the same platform;
- e2) where the message envelope is targeted to an information target on a different platform than the router, routing the message envelope to a second router acting as a router broker;
- e2a) where the message envelope is targeted to an information target on the same platform as the second router, routing the message envelope to at least one information target on the same platform;
- e2b) where the message envelope is targeted to an information target on a different platform than the second router, routing the message envelope to a third router located on the platform with the information target; the third router routing the message envelope to at least one information target on its platform;
- (f) unwrapping the message envelope to reveal the transformed information; and loading the transformed information into the information target,

wherein the extraction, transformation, and isolating steps (a)-(c), respectively, are isolated from the routing steps (e) such that the extraction, transformation, and isolating steps may be executed simultaneously for a plurality of information sources distributed across the computing environment to produce a plurality of message envelopes and wherein the subsequent steps are repeated for each of the plurality of message envelopes.

17. (Amended) A method for delivering information to information targets within a computing environment having multiple platforms, wherein each of the multiple platforms is an information system accessing the remainder of the computing environment through a different router, comprising:

- a) extracting information from an information source;

Art Unit: 2155

- b) transforming the extracted information;
 - c) wrapping the transformed information into a message envelope having a standard format;
 - d) delivering the message envelope to a router on a platform;
 - e1) where the message envelope is targeted to an information target on the same platform as the router, routing the message envelope to at least one information target on the same platform;
 - e2) where the message envelope is targeted to an information target on a different platform than the router, routing the message envelope to a second router acting as a router broker;
 - e2a) where the message envelope is targeted to an information target on the same platform as the second router, routing the message envelope to at least one information target on the same platform;
 - e2b) where the message envelope is targeted to an information target on a different platform than the second router, routing the message envelope to a third router located on the platform with the information target; the third router routing the message envelope to at least one information target on its platform;
 - f) unwrapping the message envelope to reveal the information received;
 - d) mapping the received information to a format required by the information target;
 - e) transforming the received information; and
 - f) loading the received information into the information target,
- wherein the extraction, transformation, and wrapping steps (a)-(c), respectively, are isolated from the routing steps (e) such that the extraction, transformation, and wrapping steps may be executed simultaneously for a plurality of information sources distributed across the computing environment to produce a plurality of message envelopes and wherein the routing, unwrapping, mapping, transformation, and loading steps (d)-(i), respectively, are repeated for each of the plurality of message envelopes.

18. The method of claim 17 wherein the information is pulled from the source during the extracting step (a).

Art Unit: 2155


19. The method of claim 17 wherein the information is pushed from the source during the extracting step (a).
20. The method of claim 17 wherein transforming the extracted information during step (b) further comprising applying one or more business rules to modify the extracted information.


Reason for allowance

5. The following is an examiner's statement of reasons for allowance: the prior art of record does not teach where the message envelope is targeted to an information target on a different platform than the router, routing the message envelope to a second router acting as a router broker; the router broker then routing the message envelope to at least a third router located on the platform with an information target; the third router routing the message envelope to at least one information target on its platform in lights of other limitation described in independent claims 1, 2, 16 and 17.
6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Liang-che Alex Wang whose telephone number is (571)272-3992. The examiner can normally be reached on Monday thru Friday, 8:30 am to 5:00 pm.

Art Unit: 2155

8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on (571)272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)..

Liang-che Alex Wang 
July 30, 2007


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SUPERVISORY PATENT EXAMINER